



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

0073159

00-ORL-053

MAY 23 2000

Mr. Douglas R. Sherwood
Hanford Project Manager
U. S. Environmental Protection Agency
712 Swift Boulevard, Suite Five
Richland, Washington 99352

RECEIVED
MAY 24 2000

EDMC

Dear Mr. Sherwood:

TRANSMITTAL OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT
ORDER (TRI-PARTY AGREEMENT) CHANGE CONTROL FORM NUMBER M-34-00-01

Enclosed for your approval is a Tri-Party Agreement Change Control Form, number M-34-00-01, which has been drafted to implement a new strategy to accelerate the removal of sludge and eliminate the operational overlap of fuel movement in the K-WEST and K-EAST Basins. The implementation of this strategy requires eleven changes to the current Tri-Party Agreement milestone and target dates. In addition, the change will result in significant savings in total Project cost and provides the opportunity to complete Tri-Party Agreement Milestone M-34-00 ahead of schedule.

The Baseline Change Request (BCR) for the Sludge Acceleration Strategy is also enclosed for your information. This document provides additional details regarding the strategy that the Environmental Protection Agency may wish to review when considering this change request. If you have questions, please contact me on (509) 376-6888, or your staff may contact Phillip G. Loscoe, Office of Spent Nuclear Fuels, on (509) 376-7465.

Sincerely,

George H. Sanders, Program Manager
Office of Regulatory Liaison

ORL:EBD

Enclosures:

1. Change Control Form
2. BCR

cc w/encls:

W. Burke, CTUIR
L. Gadbois, EPA
R. Stanley, Ecology
P. T. Day, FHI
J. S. Hertz, FHI

O. S. Kramer, FHI
R. E. Piipo, FHI
R. B. Wilkinson, FHI
M. Reeves, HAB
P. Sabotta, NPT

M. L. Blazek, OOE
R. Jim, YIN
TPA Administrative Record, FHI

ENCLOSURE 2

CHANGE REQUEST			2. CIN: SNF-2000-009																						
1. <input checked="" type="checkbox"/> MYWP <input type="checkbox"/> Line Item <input type="checkbox"/> Other Construction Activities <input type="checkbox"/> Funds <input type="checkbox"/> DOE Directed <input type="checkbox"/> FDH Directed <input checked="" type="checkbox"/> Project Requested			3. Date: 01/31/2000 4. Rev.: 000																						
6. WBS/Title: 1.3 SPENT NUCLEAR FUEL			7. Originator: Blair, P.S. Phone 376-0113																						
8. Change Title: Sludge Acceleration Strategy			9. Cost Center: 2J000																						
10. FDH Director: WILKINSON, RB			11. RL AM COR: KLEIN, KA																						
12. Approval Level: Highest Level Required <input type="checkbox"/> Project <input type="checkbox"/> FDH <input type="checkbox"/> RL <input checked="" type="checkbox"/> DOE-HQ			13. Priority: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Urgent																						
14. Description: <u>Description:</u> This change request (CR) proposes a Spent Nuclear Fuel (SNF) baseline strategy change to 1) integrate sludge and fuel removal activities in order to accelerate the completion of sludge removal from the K Basins and 2) eliminate the KW & KE fuel removal overlap to create a stable operations work force and provide resources (time, space, and dollars) to supplement the sludge acceleration and other SNF needs. <u>Scope of Change:</u> Approval of this change request will add, delete, accelerate, or extend the following work scope: (Continued...) pg. 6/1																									
Impacts: Indicate all impacts. <u>LIFE CYCLE COST</u> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <input type="checkbox"/> Technical/Scope <input checked="" type="checkbox"/> Funds (\$16,033) K <input checked="" type="checkbox"/> Schedule <input type="checkbox"/> Inter-projects <input checked="" type="checkbox"/> TPA <input checked="" type="checkbox"/> Cost (\$16,033) K <input checked="" type="checkbox"/> DOE-RL Mgmt. Commitments to HQ <input checked="" type="checkbox"/> DNFSB </td> <td style="width:25%; border: none; background-color: #cccccc;"> FDH Director Only <input checked="" type="checkbox"/> PAs <input type="checkbox"/> PADS <input type="checkbox"/> PHMC SOW </td> <td style="width:25%; border: none; background-color: #cccccc;"> FDH COB Use Only Contract MOD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> </table>					<input type="checkbox"/> Technical/Scope <input checked="" type="checkbox"/> Funds (\$16,033) K <input checked="" type="checkbox"/> Schedule <input type="checkbox"/> Inter-projects <input checked="" type="checkbox"/> TPA <input checked="" type="checkbox"/> Cost (\$16,033) K <input checked="" type="checkbox"/> DOE-RL Mgmt. Commitments to HQ <input checked="" type="checkbox"/> DNFSB	FDH Director Only <input checked="" type="checkbox"/> PAs <input type="checkbox"/> PADS <input type="checkbox"/> PHMC SOW	FDH COB Use Only Contract MOD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
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15. Justification: Life Cycle Cost reduction, sludge removal acceleration, and stabilizing the future work force are all justifications to proceed with this change. This change provides an opportunity for future SNF endpoint accelerations and associated Life Cycle Cost Reductions. PSN 3/15/00 <u>ENABLING ASSUMPTION CHANGES:</u> 1. Approval of CR SNF-2000-008 (February 17, 2000) changed the SNF requirements from pre-treating K Basin sludge for transfer to TWRS to direct shipment of sludge to T-Plant for interim storage. 2. Recent decision to use a new design for K East IWTS allows for the use of the North Load Out Bay for sludge removal. These two significant technical changes have allowed for this strategy change to be implemented. (Continued...) pg. 6/1																									
17. Signature/Approval: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; background-color: #cccccc;">FDH Management</td> <td style="width:33%; background-color: #cccccc;">FDH Change Control Board</td> <td style="width:33%; background-color: #cccccc;">RL</td> </tr> <tr> <td>Project Subcontractor or Designee</td> <td>Contract Management</td> <td>Contracting Officer's Representative</td> </tr> <tr> <td> 2/25/00</td> <td></td> <td></td> </tr> <tr> <td>Signature/Date</td> <td>Signature/Date</td> <td>Signature/Date</td> </tr> <tr> <td>FDH Director</td> <td>Board Chair</td> <td>RL SMB Chair</td> </tr> <tr> <td> 2/25/00</td> <td> 2/25/00</td> <td></td> </tr> <tr> <td>Signature/Date</td> <td>Signature/Date</td> <td>Signature/Date</td> </tr> </table>					FDH Management	FDH Change Control Board	RL	Project Subcontractor or Designee	Contract Management	Contracting Officer's Representative	2/25/00			Signature/Date	Signature/Date	Signature/Date	FDH Director	Board Chair	RL SMB Chair	2/25/00	2/25/00		Signature/Date	Signature/Date	Signature/Date
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Signature/Date	Signature/Date	Signature/Date																							
FDH Director	Board Chair	RL SMB Chair																							
2/25/00	2/25/00																								
Signature/Date	Signature/Date	Signature/Date																							

CHANGE REQUEST
(CONTINUED)

CIN : SNF-2000-009

REV.: 000

18. TECHNICAL / SCOPE IMPACTS :

Current Scope :

Affected WBS No: 1.2
PBS No: RL-WM04

T-Plant Storage of SNF Sludge

(Continued on page 6A)

Added / Deleted / Accelerated / Deferred Scope :

Affected WBS No: 1.2
PBS No: RL-WM04

- T-Plant readiness to receive K Basin sludge accelerated nineteen months, from July 2004 to December 2002. Refer to Waste Management change request WNP-2000-003 for details related to this change.

(Continued on page 6A)

19. SCHEDULE IMPACTS :

Current Schedule :

Affected Activities:

PMBS Activity No: See below

See Attachment 4 for PMBS changes

Affected Milestones :

Schedule ID No.: AAW00A1

Milestone Control No.: S00-01-900

REMOVE FIRST MCO FROM KW BASIN - 11/30/2000

(Continued on page 6B-6C)

Added / Deleted / Accelerated / Deferred Schedule :

PMBS Activity No: See below

See Attachment 4 for PMBS changes.

Schedule ID No.: AAW00A1

Milestone Control No.: S00-01-900

Title Change:

M34-16 Initiate Removal of KW Basin SNF

(Continued on page 6C-6E)

Proposed Changes: (TPA, DNFSB)

PMBS Activity No: See Below

Ten TPA milestones are impacted by this proposed strategy. Three of the TPA milestones are also DNFSB 94-1 Implementation Plan, Rev. 1 commitments. These milestones are M-34-08, M-34-10 and M-34-18B. Refer to Attachment 5 for further information.

PMBS Activity No: See Below

3 TPA Enforceable milestones are accelerated. 3 TPA Enforceable milestones are extended. 3 TPA Target milestones are extended. 1 TPA Target milestone is deleted. Refer to Attachment 5 for further information.

NOTE: TPA changes require an approved Federal Facility Consent Order. DNFSB changes require approval from the Secretary of Energy.

CHANGE REQUEST

(CONTINUED)

CIN SNF-2000-009

REV.: 000

20. COST IMPACTS :

TOTAL PROJECT LIFECYCLE COSTS

<u>Current Lifecycle Cost (\$ in Thousands)</u>	<u>Proposed Lifecycle Cost (K)</u>	<u>Delta (K)</u>
\$1,714,888	\$1,698,855	(\$16,033)

Current FY (\$ in Thousands)

Current <u>Auth. Project Cost</u>		Proposed <u>Auth. Project Cost</u>	<u>Net Change</u>
ADS/PBS No:	BCWS	BCWS	BCWS
RL-WM01	\$195,075	\$195,075	\$0

Outyear Cost Impacts :

(\$ in Thousands)

PBS No.	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008
RL-WM01	\$0	\$0	\$0	\$0	(\$4,428)	(\$12,986)	\$3,833	(\$7,502)	\$0	\$0	\$0

PBS No.	FY 2009	FY 2010	FY 2011 - FY 2015	FY 2016 - FY 2020	FY 2021 - FY 2025	FY 2026 - FY 2030	FY 2031 - FY 2035	FY 2036 - FY 2040	FY 2041 - FY 2045	FY 2046	FY 1953 - FY 2056
RL-WM01	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$16,033)

21. FUNDS IMPACT : (\$ in Thousands)

Current B/A <u>Total Project</u>		Proposed B/A <u>Total Project</u>	<u>Net Change</u>
Source:) ADS/PBS No.:	B/A	ADS/PBS No.	B/A
Use:) ADS/PBS No.:	B/A	ADS/PBS No.	B/A

CHANGE REQUEST
(CONTINUED)

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22. MAJOR INTER-PROJECT IMPACTS : (E.G., TWRS, SNF, WM, ER, FS)

*Using the Integrated Site Technical Baseline, interface control documents, schedules, and other applicable data sources, determine impacts between projects. Once interproject impacts are found, coordinate with impacted project to complete this section.

*Using the Hanford Site Technical Baseline, determine the following impacts:

1. Does this impact the top level functions (activities) performed by one of the Site Major Facilities?

No

2. Does this impact the ability to satisfy one of the Site Level Requirements contained in the MYWP, PBS, or Hanford Site Environmental management Specification?

No

3. Does this impact the interface between the Site Major Facilities or offsite interfaces?

Yes, Currently activities required to support a revised SNF schedule are not funded at the target levels given to waste management in FY 2001.

4. Does this impact the forecasted volume of waste to be generated by or the capacity of a Site Major Facility?

No

5. Does this impact the forecasted volume of materials to be generated by or the capacity of a Site Major Facility?

No

6. Does this impact the forecasted infrastructure needs of a Site Major Facility?

Yes, modifications required to the current infrastructure at T-Plant are not funded at target levels.

7. Does this impact the schedule dates, or responsibility for the completion of a Site Major Facility?

Yes, This accelerates the requirement to receive SNF sludge at T-Plant by 18 months.

8. Does this impact the Project definition, mission, or purpose?

No

Impact Assessment :

Accelerated T-Plant activities to support SNF sludge storage are dependent upon receipt of identified funding requirements. Current funding guidance levels for Waste Management do not support this accelerated schedule. A baseline change request (WNP-2000-003) is being processed to modify the T-Plant baseline schedule consistent with this proposed sludge acceleration strategy.

Note: Upon definition of the outyear T-Plant work scope and agreement of the budget requirements, a change request will be submitted to transfer the scope and budget from the SNF Project (RL WM01) to Waste Management (RL WM-04). This change is expected to be implemented by FY2001.

Impacted Project Signature: FDH Director

Signature

CHANGE REQUEST
(CONTINUED)

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23. DOE-RL MANAGEMENT COMMITMENTS TO HQ :
No Impact

24. ENFORCEABLE AGREEMENT IMPACT :
TPA/DNFSB Number: See Below

The following TPA milestones and DNFSB 94-1 IP commitments are impacted by the proposed Sludge Acceleration Strategy:

M-34-08 (DNFSB #119)	Accelerated	M-34-17	Extended
M-34-09-T01	Extended	M-34-18A	Accelerated
M-34-10 (DNFSB #120)	Accelerated	M-34-18B (DNFSB #118)	Extended
M-34-12	Extended		
M-34-13B-T01	Extended		
M-34-14B-T01	Extended		
M-34-15B-T01	Deleted		

Consent Order Number: See below
M-34-98-01A

Impact Assessment :

Refer to Attachment 5 for the impact analysis of the proposed TPA milestone changes. Three enforceable milestones are accelerated. Three enforceable and three target milestones are extended. One Target milestone is deleted.

A TPA change package will be processed for all proposed TPA changes. The three milestones that are also DNFSB commitments (Begin Sludge Removal, Complete Fuel Removal, and Complete Sludge Removal) will be documented in a separate 94-1 Implementation Plan change request.

NOTE: TPA changes require an approved Federal Facility Consent Order. DNFSB changes require approval from the Secretary of Energy

CHANGE REQUEST
(CONTINUED)

CIN : SNF-2000-009

REV.: 000

25. PERFORMANCE AGREEMENT (PA) IMPACT :

☐ None ☐ New ☒ Existing

PA Number :

FH-RC-1

Performance objective RC-1-1.b. related to the K East Fuel Retrieval System is no longer valid with this proposed baseline change.

Impact Assessment :

This proposed SNF path forward strategy will reschedule work associated with the existing K-East Fuel Retrieval System Performance Incentive (FH-RC-1-1.b) into FY 2001. The attached (Attachment 7) "red-lined" revision to the FY 2000 Performance Incentive, FDH-RC-1, "Move K-Basin SNF and Sludge," proposes that the fee associated with this effort be reallocated to further focus our efforts on the critical readiness to move fuel objective (FH-RC-1-1.a-I). Also reflected in this "red-lined" revision are the amounts of SNF stabilized MCOs/(MTHM) (Measure 2) as established by this change request.

NOTE: If PA is impacted, attach proposed redlined PA.

26. PROJECT AUTHORIZATION DIRECTIVE :

N/A

27. PHMC STATEMENT OF WORK :

No Impact

NOTE: Attach proposed revisions.

CONTINUATION PAGE FOR CIN: SNF-2000-009 Rev.: 000

14. Description

1. Start of conceptual design activities for sludge retrieval and transport to T-Plant would be accelerated from FY2001 to FY2000.
2. Start of sludge removal operation activities would be accelerated from Jul 2004 to Dec 2002.
3. Completion of sludge removal/containment operation activities would be accelerated from Aug 2005 to Aug 2004.
4. T-Plant readiness to receive K Basin sludge would be accelerated from Jul 2004 to Jan 2003.
5. Completion of KW fuel removal would be accelerated from Apr 2003 to Dec 2002.
6. Start of KE fuel removal would be extended from Nov 2001 to Dec 2002.
7. Completion of KE fuel removal would be extended from Dec 2003 to Jul 2004.
8. Peak operations manpower requirements would be reduced.
9. Completion of KE construction activities would be extended from Feb 2001 to Mar 2002.
10. Eliminates need for more than two operational bays in CVD.

Schedule Impacts:

See Attachment 2 for the Level 1 schedule reflecting the proposed strategy. Attachment 3 is a narrative description of impacts on each Level 1 schedule activity. Attachment 4 is the PMBS showing baseline vs. proposed. Updated Milestone Description Sheets for the impacted milestones are included in Attachment 5 as well as a summary comparison and analysis of the impacted or deleted milestones.

Cost Impacts:

In summary, this change request proposes a \$16.033M reduction to the SNF Life Cycle Cost. The FY2000 and FY2001 baselines remain unchanged due to offsetting workscopes. The FY2002 and FY2003 baselines are reduced by \$4.428 and \$12.986M, respectively, primarily due to the elimination of the KWest and KEast fuel movement overlap. The FY2004 baseline is increased by \$8.883M, primarily due to the acceleration of sludge removal OPs from FY2005 and extending completion of KEast fuel removal operations. The FY2005 baseline is reduced by \$7.502M, primarily due to the acceleration of sludge removal into FY2004. Refer to Attachment 8 for a graphic comparison of the current to the proposed budget profile by FY.

Refer to Attachment 9 for a graphic illustration of the interface activities between the SNF Project and T-Plant, including the FY budget requirements.

Attachment 10 shows the current to the proposed baseline by subproject for each fiscal year.

16. Justification

Removal of the pre-treatment requirement coupled with provisions of this CR enable sludge removal acceleration. RL approved the sludge to T-Plant path forward in RL letter 99-SFD-143, dated July 6, 1999 (Attachment 1) and the subsequent change request, SNF-2000-008, approved February 17, 2000.

Refer to Attachment 11 for a question and answer format which addresses various topics related to this change.

18. Technical/Scope Impacts (Current Scope)

Affected WBS No: 1.3

PBS No: RL-WM01

Fuel Removal Operations Sludge Retrieval/Removal Operations
KE Construction Activity
CVD Construction Activity on third bay.

18. Technical/Scope Impacts (Added/Deleted/Accelerated/Deferred Scope)

CONTINUATION PAGE FOR CIN: SNF-2000-009 Rev.: 000

Affected WBS No: 1.3

PBS No: RL-WM01

- Start of sludge retrieval operation activities accelerated nineteen months, from July 2004 to December 2002.
- Completion of sludge retrieval/containment operation activities accelerated twelve months, from August 2005 to August 2004.
- Completion of KW fuel removal accelerated four months, April 2003 to December 2002.
- Start of KE fuel removal extended thirteen months, from November 2001 to December 2002.
- Completion of KE fuel removal extended seven months, from December 2003 to July 2004.
- Completion of KE construction activities extended thirteen months, from February 2001 to March 2002.
- Delete scope associated with the requirements to fully install the third bay of CVD.

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: AAW00A5

Milestone Control No: S00-02-901

REMOVE FIRST MCO FROM KE BASIN - 11/30/2001

Schedule ID No: AAW00B

Milestone Control No: S00-00-902

COMPLETE FUEL REMOVAL FROM BASINS - 12/31/2003

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: DAW06A25

Milestone Control No: S03-03-068

COMPLETE KW FUEL REMOVAL - 4/30/2003

Schedule ID No: ECW01C02D

Milestone Control No: S04-99-510

CD4A FUEL MOVE OPERATIONS (KE) - 10/26/2001

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: ECWA4210

Milestone Control No: S04-98-356

COMPLETE KE FRS CONSTRUCTION - 11/16/2000

Schedule ID No: EDWID01999

Milestone Control No: S04-00-205

COMPLETE ORR SLUDGE TRANSFER FROM K BASINS - 7/29/2004

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: EDW2104000

Milestone Control No: S04-02-205

START KE SLUDGE TRANSFER TO TREATMENT SYSTEM - 7/30/2004

Schedule ID No: EDW2104999

Milestone Control No: S04-01-215

CONTINUATION PAGE FOR CIN: SNF-2000-009 Rev.: 000
COMPLETE SLUDGE REMOVAL FROM K BASINS - 8/31/2005

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: EFW2501999

Milestone Control No: S04-01-507

COMPLETE K BASIN DEBRIS REMOVAL - 3/09/2005

Schedule ID No: EFW28099

Milestone Control No: S04-05-516

COMPLETE REMOVAL K BASINS RACKS/CANISTERS - 11/02/2004

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: EGW1507299

Milestone Control No: S04-97-621

COMPLETE KE IWTS ATP - 2/28/2001

Schedule ID No: FCW091299

Milestone Control No: S06-97-012

COMPLETE KE CASK FACILITY MODS - 1/25/2001

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: HTW0104A

Milestone Control No: S10-99-951

START KW BASINS WATER REMOVAL - 9/30/2004

Schedule ID No: HTW0104B

Milestone Control No: S10-99-952

COMPLETE KW BASIN WATER REMOVAL - 9/29/2005

19. Schedule Impacts (Affected Milestones Current Schedule)

Schedule ID No: HTW0106B

Milestone Control No: S10-99-954

COMPLETE KE WATER REMOVAL - 10/30/2006

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: AAW00A5

Milestone Control No: S00-02-901

Rescheduled

M34-17 Initiate Removal of KE Basin SNF - 12/31/2002

Schedule ID No: AAW00B

Milestone Control No: S00-00-902

Rescheduled

M34-18B Complete Removal of all K East Basin SNF - 7/31/2004

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

CONTINUATION PAGE FOR CIN: SNF-2000-009 Rev.: 000

Schedule ID No: DAW06A25

Milestone Control No: S03-03-068

Accelerated

M34-18A Complete Removal of all KW Basin SNF - 12/31/2002

Schedule ID No: ECW01C02D

Milestone Control No: S04-99-510

Rescheduled

CD4A Fuel Move Operations (KE) - 11/27/2002

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: ECWA4210

Milestone Control No: S04-98-356

Rescheduled

M34-13B-T01 - 3/31/2002

Schedule ID No: EDW1D01999

Milestone Control No: S04-00-205

Accelerated

CD4/Compl ORR Sludge Xfer from K-Basins - 12/31/2002

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: EDW2104000

Milestone Control No: S04-02-205

Accelerated

M34-08 Initiate Full Scale KE Sludge Rmvl - 12/31/2002

Schedule ID No: EDW2104999

Milestone Control No: S04-01-215

Accelerated

M34-10 Cmpl Sludge Removal from K Basins - 8/31/2004

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: EFW2501999

Milestone Control No: S04-01-507

Accelerated

Cmpl K Basin Debris Removal - 1/31/2005

Schedule ID No: EFW28099

Milestone Control No: S04-05-516

Rescheduled

M34-09-T01 Cmpl K Basins Rack & Canister Removal - 1/31/2005

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: EGW1507299

Milestone Control No: S04-97-621

Rescheduled

M34-12 Cmpl Construction of KE Basin IWTS - 3/31/2002

Schedule ID No: FCW091299

Milestone Control No: S06-97-012

Rescheduled

CONTINUATION PAGE FOR CIN: SNF-2000-009 Rev.: 000
M34-14B-T01 Cmplt KE Basin Cask Facility Mods - 02/28/2002

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: HTW0104A

Milestone Control No: S10-99-951

Title Change:

Initiate Full Scale KW Basin Water Removal

Schedule ID No: HTW0104B

Milestone Control No: S10-99-952

Reschedule

M34-22 Complete KW Basin Water Removal - 9/30/2005

19. Schedule Impacts (Affected Milestones Added/Deleted/Accelerated/Deferred Schedule)

Schedule ID No: HTW0106B

Milestone Control No: S10-99-954

Rescheduled

M34-24 Complete K East Basin Water Removal - 10/31/2006

SNF-2000-009

Attachment Index

- Attachment 1 - 99-SFD-143, "Contract No. DE-AC06-96RL13200-Spent Nuclear Fuel (SNF) Sludge Treatment Path Forward Recommendation," P.G. Loscoe to R.D. Hanson, dated July 6, 1999
- Attachment 2 - Schedule - Proposed Sludge Acceleration Strategy
- Attachment 3 - Level 1 Schedule Summary - Change SNF Path Forward to Attain Earlier Basin Sludge Removal
- Attachment 4 - Variance Comparison – Proposed vs. January Baseline (BTPB)
- Attachment 5 - P3 and CMM Milestone Data Comparison
- Attachment 6 - Chart - Fuel Production Rate Basis
- Attachment 7 - FY2000 Performance Incentive: Move K-Basin SNF and Sludge
- Attachment 8 - Graph - Cumulative SNF Budget Comparison - FY2002 thru FY2007
- Attachment 9 - Graph - SNF and WM Funded Activities to Support Receipt and Storage of Sludge at T-Plant
- Attachment 10 - Summary of Proposed Baseline Changes by Subproject
- Attachment 11 - Sludge Acceleration Strategy Questions and Answers

SNF-2000-009

Attachment

1

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

P. G. Loscoe/RL

President/FDH

Incoming: 9954690
DOE-RL: 99-SFD-143
CC Recd: 07/07/99

Subject: CONTRACT NO. DE-AC06-96RL13200 - SPENT NUCLEAR FUEL (SNF) SLUDGE
TREATMENT PATH FORWARD RECOMMENDATION

DISTRIBUTION

Name	Location	w/att
Correspondence Control	A3-01	
<u>Fluor Daniel Hanford, Inc.</u>		
FDH President's Office	H5-20	
P. S. Blair, Jr.	R3-11	
J. T. Curtis	B3-15	
E. W. Gerber	R3-11	
R. G. Jones	R3-11	
J. D. Thomson	R3-86	
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<u>Numatec Hanford Corporation</u>		
W. C. Miller	R3-11	

PHMC CORRESPONDENCE CONTROL

For Questions or Distribution/MSIN Corrections

Contact: Chris Hough @ 376-8111 or Tanja Scharnhorst @ 372-3931

CC:MAIL ADDRESS: ^CORRESPONDENCE CONTROL-PHMC



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

9954690
CC REC'D: 07/07/99

99-SFD-143

JUL 6 1999

Mr. R. D. Hanson, President
Fluor Daniel Hanford, Inc.
Richland, Washington 99352

Dear Mr. Hanson:

**CONTRACT NO. DE-AC06-96RL13200 - SPENT NUCLEAR FUEL (SNF)
SLUDGE TREATMENT PATH FORWARD RECOMMENDATION**

The U.S. Department of Energy, Richland Operations Office (RL), is in receipt of the Fluor Daniel Hanford, Inc. (FDH) letter to J. M. Augustenborg, RL, from N. H. Williams, "Spent Nuclear Fuel Sludge Treatment Path Forward Recommendation," (FDH-9953935), dated June 10, 1999. This letter advocates a new path forward for the management of the K Basins canister and floor sludge. The Spent Nuclear Fuels Project Division (SFD) has reviewed the FDH submission and concurs with this recommendation. Furthermore, SFD's analysis of the recommendation is the new management strategy represents a valuable opportunity to accelerate some aspects of the existing work schedules and more importantly, to identify and optimize actions that could result in substantial savings to this component of the SNF Project.

This letter approves the SNF sludge treatment path forward recommendation documented in the FDH letter referenced above. Additionally, FDH is directed to immediately proceed with the preparation of a detailed plan of work to be accomplished during the remainder of this fiscal year, which implements this new path forward. FDH is also instructed to prepare a Baseline Change Request (BCR) for the aforementioned planned work and submit it to RL for approval. It is SFD's expectation that this new BCR will contain detailed technical data, including resource loaded schedules and proposed levels of effort in the Basis of Estimates, which maintain consistency with or potentially accelerate existing sludge removal commitments set forth in the current Hanford Federal Facility Agreement and Consent Order Baseline Schedule.

In conjunction with the new proposed plan, SFD would make the following suggestions regarding certain aspects of the proposal. SFD believes it would be prudent to further investigate the projected timeline for the interface to transfer and accept knockout pot fine metal particles at T Plant or another acceptable interim storage facilities. Also, SFD believes as an element of the planning effort, provisions should be negotiated with the interim storage facility to begin accepting sludge and fuel wash materials in particular as early as May 2000. This could be conducted in conjunction with any proposed SNF Project early hot testing program.

Mr. R. D. Hanson
99-SFD-143

-2-

JUL 6 1999

If any direction is provided by a Contracting Officer's Representative (COR) which your company believes exceeds the COR's authority, you are to immediately notify the Contracting Officer and request clarification before complying with the direction.

If you have any further questions regarding this matter, please contact me, or you may contact Robert G. Holt of my staff on (509) 376-9989.

Sincerely,



P. G. Loscoe, Acting Director
Spent Nuclear Fuels Project Division

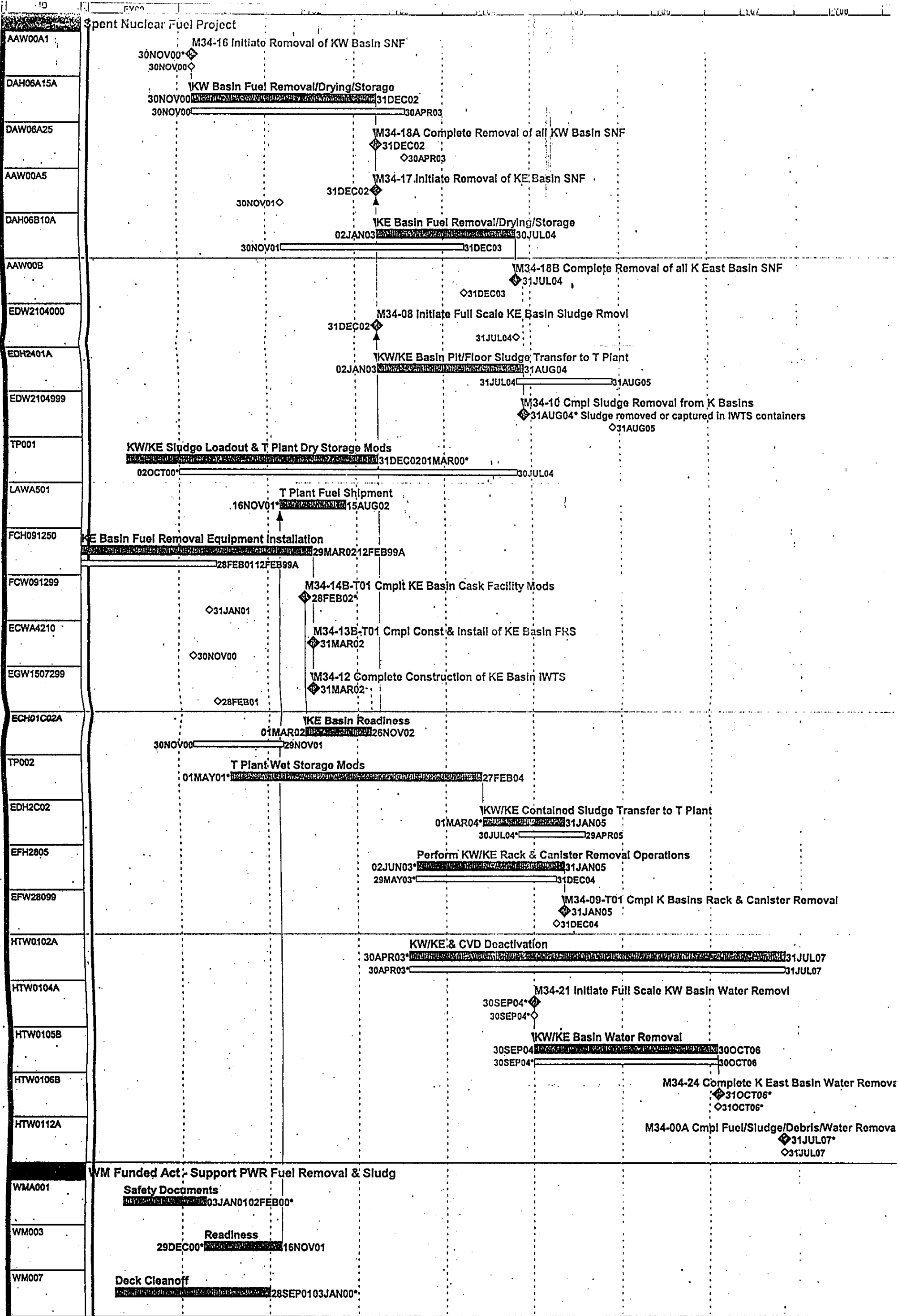
SFD:RGH

cc: C. B. Aycock, DESH
J. W. Foster, DESH
R. G. Morgan, DESH
R. P. Ruth, DESH
D. R. Sherwood, EPA
E. W. Gerber, FDH
R. G. Jones, FDH
L. B. McDaniels, FDH
D. B. Van Leuven, FDH
R. B. Willard, FDH
N. H. Williams, FDH
P. T. Day, MACTC
T. Choho, NHC
W. C. Miller, NHC
W. W. Rutherford, NHC

SNF-2000-009

Attachment

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SNF-2000-009

Attachment

3

Change SNF Path Forward To Attain Earlier Basin Sludge Removal Level 1 Schedule Summary

Schedule Impacts

(See Attachment 2 - Proposed Sludge Acceleration Strategy Schedule. Underlined items below reference Attachment 2 schedule activities or milestones.)

KW Basin Fuel Removal/Drying/Storage - Commences as currently scheduled on 30 November 2000 (M34-16, no change). It is expected that results from the Phased Startup Initiative (PSI) will provide a one-month acceleration of Multi Canister Overpack (MCO) fuel loading production during Fiscal Year (FY)2001. (Reference Attachment 6 for Fuel Production Rates.) During FY2002 and early FY2003, the MCO fuel production rate is at a steady 2.5 MCOs per week (10.5/month) until all required MCOs are processed in the K West Basin. The current baseline reflects a transition (overlap) with the K East Basin that gradually reduces the K West basin production rate. The elimination of the transition allows for K West to complete 4 months early (M34-18A, Accelerated 4 months). A minimal number of MCOs (2) are expected to be moved during the last month of K West production (based on total of 200 MCOs).

KE Basin Fuel Removal/Drying/Storage - Commences as K West MCO fuel loading production completes (M34-17, Extended 13 months) eliminating the current baseline overlap between the two Basins. The current baseline overlap requires hiring and training two complete crews of operators and support personnel. These two crews work both basins simultaneously until the K West personnel are released upon K West completion. Under this proposal a single work force will be utilized, therefore, reducing the peak personnel required, including the associated training and support personnel. MCO fuel loading production rate at K East will be at 2.5 MCOs per week until all MCOs are processed. K East fuel removal would complete by 30 July 2004 (M34-18B, Extended 7 months). This strategy provides for the use of overtime to recover lost time due to inclement weather or other unforeseen circumstances.

KW/KE Basin Pit/Floor Sludge Transfer to T-Plant - Will commence concurrently with fuel removal from K East (M34-08, Accelerated 19 months). The recent decision to re-design the K East Integrated Water Treatment System (IWTS) and locate it outside of the K East basin building, allows for the use of the north load out bay for sludge removal concurrent with K East fuel removal. (Note: Current K West IWTS installation utilizes the north load out bay, precluding concurrent operations in the K West basin.) The K East basin floor sludge (approximately 45 cubic meters of sludge) will be removed concurrent with the fuel and completed one month after the last MCO leaves the basin (M34-10, Accelerated 12 months). Fuel canister sludge will be captured/contained in the IWTS, settler tanks and knock out pots (approximately 5 cubic meters of sludge).

KW/KE Sludge Loadout and T-Plant Dry Storage Mods - Will be accelerated to commence in FY2000. This acceleration is required to support the earlier sludge transfer to T-Plant. This strategy calls for the completion of the T-Plant dry storage mods including:

- 1) T-Plant Fuel Shipment (Shippingport fuel) to the Canister Storage Building (CSB),
- 2) The T-Plant fuel shipment readiness.

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Attachment

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ID	Early Start	Early Finish	Early Start	Early Finish	Early Start	Early Finish	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
1.03.01.02.15 Water Treatment (Des/ Mod/ Const)															
EGH15062	18JAN01	29MAR02	23MAY00	02JAN01	-164	-313									
EGW15041	08FEB00*	29SEP00	01OCT99	17MAR00	-87	-137									
EGW15049		13OCT00		05AUG99A	-301	-301									
EGW15062A	16OCT00	02FEB01	01OCT99	22MAY00	-262	-176									
EGW15072	01FEB02	29MAR02	03JAN01	28FEB01	-273	-273									
EGW150729		31MAR02		28FEB01	-396	-396									
EGW199915		26FEB01		14JAN00	-281	-281									
EGW199910	16OCT00*	05JAN01	01NOV99*	24APR00	-241	-176									
1.03.01.02.25 Operate SNF Removal Systems															
1.03.01.02.25.16 Debris Removal Project. (During F.M.)															
EFH2402	29DEC00	30JUL04	29DEC00	30JAN04	0	-127									
EFW2C01	01OCT02*	29SEP03	02OCT00	28SEP01	-503	-503									
1.03.01.02.25.19 SNF Relocation Common Operations															
DAW06A13	27NOV02	30DEC02	30OCT01	29NOV01	-272	-271									
DAW06A15	30APR01	31DEC02	30APR01	30APR03	0	84									
DAW06A25		31DEC02		30APR03	84	84									
DAW06B05	31DEC02	31JAN03	30NOV01	03JAN02	-271	-272									
DAW06B10	03FEB03	30JUL04	04JAN02	31DEC03	-272	-148									
DAW06C20	01JUL04*	30JUL04	04JAN05	02MAY05	126	189									
1.03.01.02.25.41 K Basin CVD Facility (Operations)															
DAW06C10	02AUG04	31DEC04	02JAN04	31DEC04	-148	0									
HBH04C17	30OCT00	30JUL04	30OCT00	31DEC03	0	-148									

KE - Equipment Installation

Complete KE IWTS Definitive Design

CD3A KE IWTS Procurement / Limited Construction

KE IWTS - Facility Modifications

KE - IWTS CAT's

MC-12 Cmplt Construction of KE Basin IWTS

CD3B- KE IWTS Installation Approval

KE - Procure/Fab/Test IWTS Equipment

Perform KE/KW Canister Cleaning

Spent IXC Disposition

Load KE Basin Fuel 1st MCO/Cask

KW Fuel Relocation Operations

MC-18A Complete Removal of all KW Basin SNF

KE Fuel Relocate Process Validation

KE Fuel Relocation Operations

Prep/Ship KE Found Fuel to CSB

Maintain Basin Removal/CVD Capability

CVD Operations

ID	Start	Finish	Early Start	Early Finish	Early Start	Early Finish	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
EJH0202	02APR01	28JUN02	01OCT99	28SEP01	-376	-188									
EJW02035		30JUN02*		30JUN03	365	365									
1.03.01.02.50.30 K Basins Deactivation Operations															
EFH2501	02AUG04	31JAN05	02JAN04	02NOV04	-148	-59									
EFH2801	02JUN03	26NOV03	29MAY03	23JUL04	-2	164									
EFW2501000	02AUG04		02JAN04		-148	-148									
EFW2501999		31JAN05		09MAR05	26	26									
EFW28099		31JAN05		02NOV04	-59	-59									
1.03.01.03 Canister Storage Building															
1.03.01.03.20 Receive Defense Production Reactor SNF															
1.03.01.03.20.30 Canister Storage Building Operations															
GAH049	30OCT00	30JUL04	30OCT00	31DEC03	0	-148									
GAW04024	01OCT01*	16SEP02	02NOV99	17OCT00	-481	-481									
GAW04047	03FEB03*		04JUN01		-419	-419									
GAW04020	03FEB03	30JUL04	04JUN01	31DEC03	-419	-148									
GAW04020A		30JUL04		31DEC03	-148	-148									
GAW060	02AUG04	30SEP04	02JAN04	30SEP04	-148	0									
1.03.01.04 200 Area ISA															
1.03.01.04.20 Implement Site Wide Interim Storage 200 Area															
1.03.01.04.20.60 Site Wide SNF (Des/ Move Fuel to 200 ISA)															
LAWA501	16NOV01*	15AUG02	03OCT01*	14FEB02	-32	-127									

Prepare Sludge Transfer Safety Analysis

◇M34-07-T01 Cmpl Final Safety Basis Sludge Xfer

Perform KE Basin Rack Removal Ops

Perform KW Basin Rack Removal Ops

◇CD4 DRS Operations

◇Cmpl K Basin Debris Removal

M34-09-T01 Cmpl K Basins Rack & Canister Removal

Conduct CSB Opns During Staging & MCO

Perform Weld Station Dry Runs/Training/Maint

◇Authorize Weld Station Operations Start

Operate Weld Station Process

Cmpl MCO Welding Ops (Fuel In Dry Storage)

Operate CSB During Dry Storage

Transfer PWR Core 2 SNF to CSB

(MDS_1b) P3 and CMM Milestone Data Comparison:

SNF-2000-009, Attachment 5a

TPA Milestone: M-034-24

CMM Title: COMPLETE KE WATER REMOVAL

CMM Milestone Level: HQ

CMM Management Commitment:

Proposed Title: M34-24 Complete K East Basin Water Removal

P3 Milestone Type: HEI

CMM Enforceable Agreement: Yes

Milestone Number: S10-99-954

P3 Activity ID: HTW0106B

CMM Baseline Date:

10/30/2006

Proposed Schedule Date:

10/31/2006

Variance Between CMM and P3 Dates:

-1 days

Impact Analysis:

Administrative change only to date in SNF baseline to be consistent with TPA Consent Order.

TPA Milestone: M-034-22

CMM Title: COMPLETE KW BASIN WATER REMOVAL

CMM Milestone Level: HQ

CMM Management Commitment:

Proposed Title: M34-22 Complete KW Basin Water Removal

P3 Milestone Type: HEI

CMM Enforceable Agreement: Yes

Milestone Number: S10-99-952

P3 Activity ID: HTW0104B

CMM Baseline Date:

09/29/2005

Proposed Schedule Date:

09/30/2005

Variance Between CMM and P3 Dates:

-1 days

Impact Analysis:

Administrative change only to date in SNF baseline to be consistent with TPA Consent Order.

Milestone Level (1st Digit of Character Field):

H = DOE-HQ

F = Field Office

R = DOE-RL

C = Contractor

Milestone Type (2nd Digit of Character Field):

E = Enforceable Agreement

F = Contractor Project Trackable

G = Program Execution Guidance

O = Other

T = Technology Insertion Point

X = Place Holder

TPA Type (3rd Digit of Character Field):

M = Major

C = Consent Order

I = Interim

D = DNFSB Commitment

T = Target

X = Place Holder

(MDS_1b) P3 and CMM Milestone Data Comparison:

SNF-2000-009, Attachment 5a.

TPA Milestone: M-034-17

CMM Title: REMOVE FIRST MCO FROM KE BASIN

CMM Milestone Level: HQ

CMM Management Commitment:

Proposed Title: M34-17 Initiate Removal of KE Basin SNF

P3 Milestone Type: HEI

CMM Enforceable Agreement: Yes

Milestone Number: S00-02-901

P3 Activity ID: AAW00A5

CMM Baseline Date:

11/30/2001

Proposed Schedule Date:

12/31/2002

Variance Between CMM and P3 Dates:

-396 days

Impact Analysis:

Delay in start provided for a stable workforce by eliminating the K East and K West overlap. TPA date extended 13 months.

TPA Milestone: M-034-12

CMM Title: COMPLETE KE IWTS ATP

CMM Milestone Level: HQ

CMM Management Commitment:

Proposed Title: M34-12 Cmpl't Construction of KE Basin IWTS

P3 Milestone Type: HEI

CMM Enforceable Agreement: Yes

Milestone Number: S04-97-621

P3 Activity ID: EGW1507299

CMM Baseline Date:

02/28/2001

Proposed Schedule Date:

03/31/2002

Variance Between CMM and P3 Dates:

-396 days.

Impact Analysis:

No impact. Delay consistent with proposed start of fuel movement for K East to provide a more stable workforce. TP date extended 13 months.

Milestone Level (1st Digit of Character Field):

H = DOE-HQ

F = Field Office

R = DOE-RL

C = Contractor

Milestone Type (2nd Digit of Character Field):

E = Enforceable Agreement

F = Contractor Project Trackable

G = Program Execution Guidance

O = Other

T = Technology Insertion Point

X = Place Holder

TPA Type (3rd Digit of Character Field):

M = Major

C = Consent Order

I = Interim

D = DNFSB Commitment

T = Target

X = Place Holder

(MDS_1b) P3 and CMM Milestone Data Comparison:

SNF-2000-009, Attachment Sa

TPA Milestone: M-034-14E-T01

CMM Title: COMPLETE KE CASK FACILITY MODS CMM Milestone Level: RL CMM Management Commitment:

Proposed Title: M34-14B-T01 Cmplt KE Basin Cask Facility
Mods

P3 Milestone Type: HEI CMM Enforceable Agreement:

Milestone Number: S06-97-012

P3 Activity ID: FCW091299

CMM Baseline Date:	Proposed Schedule Date:	Variance Between CMM and P3 Dates:
01/25/2001	02/28/2002	-399 days

Impact Analysis:

No impact. Delay consistent with proposed start of fuel movement for K East to provide a more stable workforce. TPA date extended 13 months.

TPA Milestone: M-034-13B-T01

CMM Title: COMPLETE KE FRS CONSTRUCTION CMM Milestone Level: RL CMM Management Commitment:

Proposed Title: M34-13B-T01 Cmpl Const & Install of KE
Basin FRS

P3 Milestone Type: FOT CMM Enforceable Agreement:

Milestone Number: S04-98-356

P3 Activity ID: ECWA4210

CMM Baseline Date:	Proposed Schedule Date:	Variance Between CMM and P3 Dates:
11/16/2000	03/31/2002	-500 days

Impact Analysis:

No impact. Delay consistent with proposed start of fuel movement for K East to provide a more stable workforce. TPA date extended 16 months.

Milestone Level (1st Digit of Character Field):

H = DOE-HQ F = Field Office

R = DOE-RL C = Contractor

Milestone Type (2nd Digit of Character Field):

E = Enforceable Agreement F = Contractor Project Trackable

G = Program Execution Guidance O = Other

T = Technology Insertion Point X = Place Holder

TPA Type (3rd Digit of Character Field):

M = Major C = Consent Order

I = Interim D = DNFSB Commitment

T = Target X = Place Holder

(MDS_1b) P3 and CMM Milestone Data Comparison:

SNF-2000-009, Attachment 5a

CMM Title: COMPLETE K BASIN DEBRIS REMOVAL CMM Milestone Level: RL CMM Management Commitment:

Proposed Title: Cmpl K Basin Debris Removal

P3 Milestone Type: ROX CMM Enforceable Agreement:

Milestone Number: S04-01-507

P3 Activity ID: EFW2501999

CMM Baseline Date:

03/09/2005

Proposed Schedule Date:

01/31/2005

Variance Between CMM and P3 Dates:

37 days

Impact Analysis:

Accelerated Milestone; no impact

CMM Title: COMPLETE ORR SLUDGE TRANSFER FROM K BASINS CMM Milestone Level: RL CMM Management Commitment:

Proposed Title: CD4/Compl ORR Sludge Xfer from K-Basins

P3 Milestone Type: ROX CMM Enforceable Agreement:

Milestone Number: S04-00-205

P3 Activity ID: EDW1D01999

CMM Baseline Date:

07/29/2004

Proposed Schedule Date:

12/31/2002

Variance Between CMM and P3 Dates:

576 days

Impact Analysis:

Accelerated Milestone; no impact

Milestone Level (1st Digit of Character Field):

H = DOE-HQ

F = Field Office

R = DOE-RL

C = Contractor

Milestone Type (2nd Digit of Character Field):

E = Enforceable Agreement

F = Contractor Project Trackable

G = Program Execution Guidance

O = Other

T = Technology Insertion Point

X = Place Holder

TPA Type (3rd Digit of Character Field):

M = Major

C = Consent Order

I = Interim

D = DNFSB Commitment

T = Target

X = Place Holder

(MDS_1e) P3 and CMM Milestone Data Comparison (Title Changes Only):

SNF-2000-009, Attachment 5e

Milestone Number: S00-01-900 AAW00A1

CMM Title: REMOVE FIRST MCO FROM KW BASIN **CMM Milestone Level:** HQ **CMM Management Commitment:** **CMM TPA Milestone:** Yes

Proposed P3 Title: M34-16 Initiate Removal of KW Basin SNF

P3 Milestone Type: HEI **CMM Enforceable Agreement:** Yes **CMM TPA Milestone No:** M-034-16

<u>CMM Baseline Date:</u>	<u>P3 Schedule Date:</u>	<u>Variance Between CMM and P3 Dates:</u>
11/30/2000	11/30/2000	0 days

Impact Analysis:

Titles are being changed in SNF Baseline schedule to be consistent with the TPA Consent Order.

Milestone Number: S10-99-951 HTW0104A

CMM Title: START KW BASINS WATER REMOVAL **CMM Milestone Level:** HQ **CMM Management Commitment:** **CMM TPA Milestone:** Yes

Proposed P3 Title: M34-21 Initiate Full Scale KW Basin Water Removal

P3 Milestone Type: HEI **CMM Enforceable Agreement:** Yes **CMM TPA Milestone No:** M-034-21

<u>CMM Baseline Date:</u>	<u>P3 Schedule Date:</u>	<u>Variance Between CMM and P3 Dates:</u>
09/30/2004	09/30/2004	0 days

Impact Analysis:

Titles are being changed in SNF Baseline schedule to be consistent with the TPA Consent Order.

Milestone Level (1st Digit of Character Field):

H = DOE-HQ F = Field Office
R = DOE-RL C = Contractor

Milestone Type (2nd Digit of Character Field):

E = Enforceable Agreement F = Contractor Project Trackable
G = Program Execution Guidance O = Other
T = Technology Insertion Point X = Place Holder

TPA Type (3rd Digit of Character Field):

M = Major C = Consent Order
I = Interim D = DNFSB Commitment
T = Target X = Place Holder

PHMC

MILESTONE DESCRIPTION SHEET

Title	REMOVE FIRST MCO FROM KE BASIN
New Title	<i>M34-17 Initiate Removal of KE Basin SNF</i>
Date	
Assigned To	J. Wicks
CiN	SNF-1999-006
Program WBS Designator	1.3.1
Due Date	11/30/2001
New Due Date	12/31/2002
PBS No	RL-WM01
MC#	S00-02-901
Activity	AAW00A5
TPA No	M-034-17
Revision	0

Milestone Level	Headquarters
MILE	HEI
Milestone Type	EA
PA	
DNFSB Status	No
Deliverables	Other
Address To	
Management Commitment	<input type="checkbox"/>

Milestone Description Remove first MCO from KE Basin.

New Milestone Description

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Constitutes Completion This milestone is complete when the first MCO is removed from the KE Basin facility.